

## ABSTRACT

A compound obtained by incorporating atoms  $C_z$  into vacant lattice points of a crystal represented by the general formula  $A_xB_y$  (wherein A is a cation; B is an anion; and x and y satisfy an electrically neutral stoichiometric ratio) while controlling the introduction with respect to position and/or concentration (C is an atom capable of forming an ion which has an arbitrary valence and is introduced into a vacant lattice point of the crystal of the compound  $A_xB_y$ ; and z is from 0 to the number corresponding to the concentration of vacant lattice points in  $A_xB_y$ ).